

What is claimed is:

Sub A21
1. A track jump method performed on an optical recording medium on which a plurality of header areas having different phases are disposed between recordable data areas, in which information for recognition of reference frequency is provided in wobbling shape on a track, to separate the data areas, the track jump method comprising the steps of:

receiving a track jump command;

checking whether a current location is the end of a header area when the track jump command is received;

standing by without performing a track jump when the current location is not the end of the header area and performing the track jump with inhibition of a phase locked loop (PLL) of a wobble signal when the current location is the end of the header area; and

resuming the PLL of the wobble signal when the track jump is completed.

2. The track jump method of claim 1, wherein the checking step determines an off-point of a header mask signal indicating a header area as the end point of the header area.

3. The track jump method of claim 1, wherein the PLL inhibiting step inhibits the PLL of the wobble signal and holds a PLL-wobble signal to a value obtained before the track jump is performed.

4. The track jump method of claim 1, wherein the PLL inhibiting step slices a sum of optical reflected signals from the optical recording medium at a certain level to generate a header mask signal indicating a header area.

5. The track jump method of claim 1, wherein the PLL inhibiting step slices a difference between optical reflected signals, which are divided in a track direction from the

optical recording medium, at a certain level to generate a header mask signal indicating a header area.

6 The track jump method of claim 1, wherein the PLL inhibiting step counts wobble signals subjected to the PLL to generate a header mask signal indicating a header area.

5 7. The track jump method of claim 1, wherein the PLL resuming step counts wobble signals subjected to the PLL to generate a header mask signal indicating a header area when the track jump is completed.

8. The track jump method of claim 1, wherein the PLL inhibiting step inhibits the PLL of the wobble signal in a section in which a header mask signal is on.

10 9. The track jump method of claim 1, wherein the PLL resuming step terminates the track jump before a point at which a header mask signal indicating a header area is turned on.

10. A track jump method performed on an optical recording medium on which a plurality of header areas having different phases are disposed between recordable data areas to separate the data areas, the track jump method comprising the steps of:

15 receiving a track jump command;
checking whether a current location is the end of a header area when the track jump command is received; and

performing a track jump when the current location is the end of the header area and standing by without performing the track jump until the header area ends when the current
20 location is not the end of the header area.

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11. The track jump method of claim 10, wherein the checking step determines a falling point of a header mask signal indicating a header area as the end point of the header area.

12. The track jump method of claim 10, wherein the track jump performing step ends before a rising point of a header mask signal indicating a header area.

5 13. The track jump method of claim 10, wherein when an N-time consecutive track jump command is received, a procedure of starting the track jump at a falling edge of a header mask signal, ending the track jump before a rising edge of the header mask signal, and turning on a servo is repeated N times.

10 14. A track jump method performed on a disc on which a plurality of header areas having different phases are disposed between recordable data areas, in which information for recognition of reference frequency is provided in wobbling shape on a track, to separate the data areas, the track jump method comprising the steps of:

performing a track jump with inhibition of a phase locked loop (PLL) of a wobble signal when a track jump command is received; and

15 resuming the PLL of the wobble signal when the track jump is completed.

15 15. The track jump method of claim 14, wherein the PLL inhibiting step inhibits the PLL of the wobble signal and holds a PLL-wobble signal to a value obtained before the track jump is performed, during the track jump.

20 16. The track jump method of claim 14, wherein the PLL inhibiting step starts the track jump at a point where a header area ends when the track jump command is input.

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Cont

17. The track jump method of claim 14, wherein the PLL inhibiting step inhibits the PLL of the wobble signal in a section in which a header mask signal is on.

18. A track jump method performed on an optical recording medium on which a plurality of header areas having different phases are disposed between recordable data areas, in which information for recognition of reference frequency is provided in wobbling shape on a track, to separate the data areas, the track jump method comprising the steps of:

masking a header area using a first header mask signal indicating the header area during a track jump; and

masking a header area using a second header mask signal indicating the header area during normal recording/reproducing,

wherein the first header mask signal is not influenced by a wobble period.

19. The track jump method of claim 18, wherein the first header mask signal is generated by slicing a sum of or a difference between optical reflected signals from the optical recording medium at a certain level.

20. The track jump method of claim 18, wherein the second header mask signal is generated by counting wobble signals subjected to the PLL.

21. The track jump method of claim 18, further comprising the step of masking a header area using the first header mask signal until a wobble signal is normally detected after the track jump is completed.

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